

AFOQT Prep

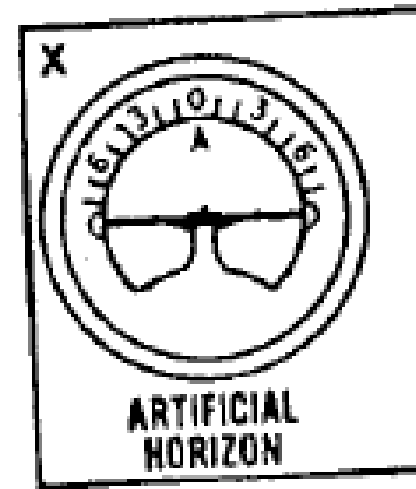
Lesson 3

Instrument Comprehension

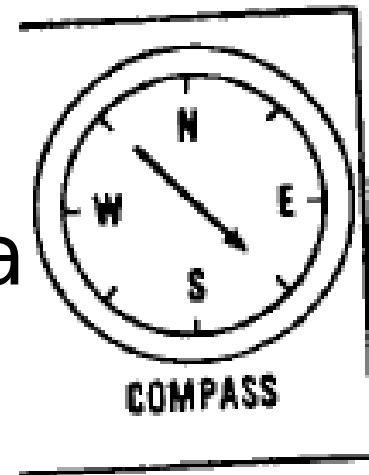
- 6 Minutes – 20 Questions
- Very fast pace
 - 18 seconds per question
 - Need to become comfortable with an artificial horizon and a compass and how they relate
- Ground rules
 - The arrow on the artificial horizon always point to the sky
 - On the answer options, the “camera” is always at the level of the airplane, looking North

Examples

- Straight and level flight



- Airplane pointing southea

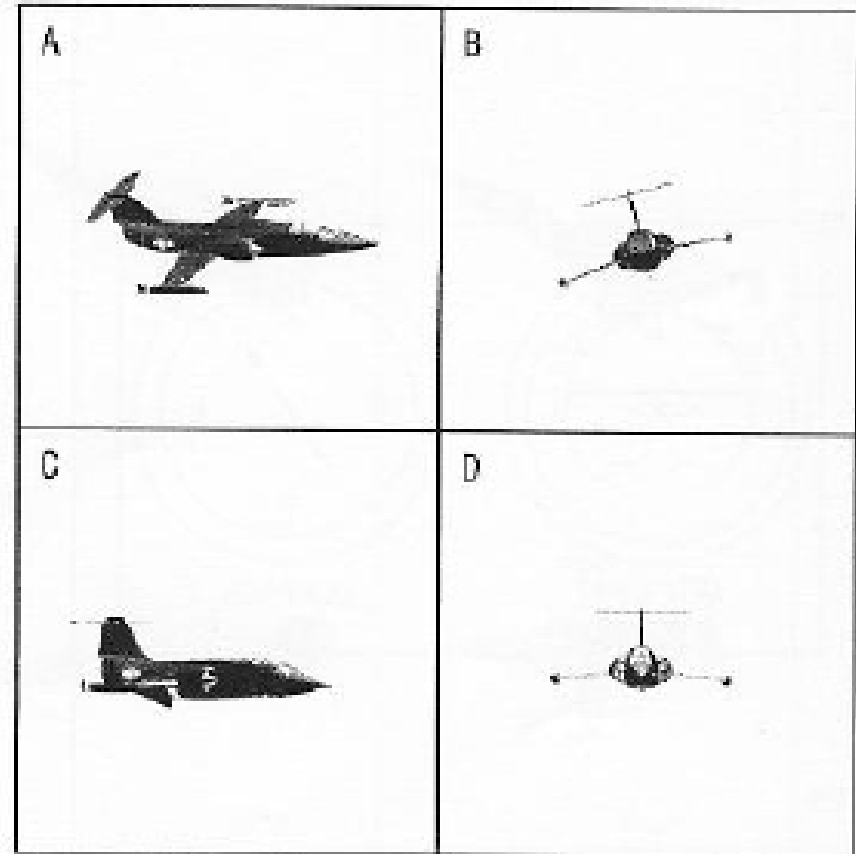
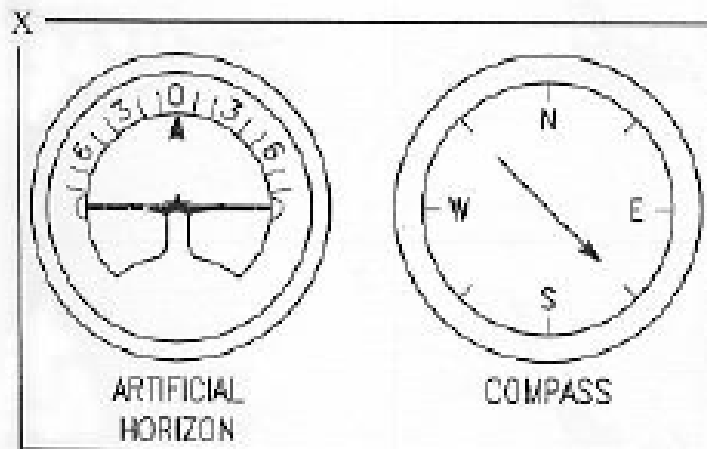


Tips

- It's always the same plane (F-104)
- Pictures are lower quality here than they will be on the AFOQT
- Determine some type of method that works for you to solve these if you don't like mine
- Remember that speed is KEY!

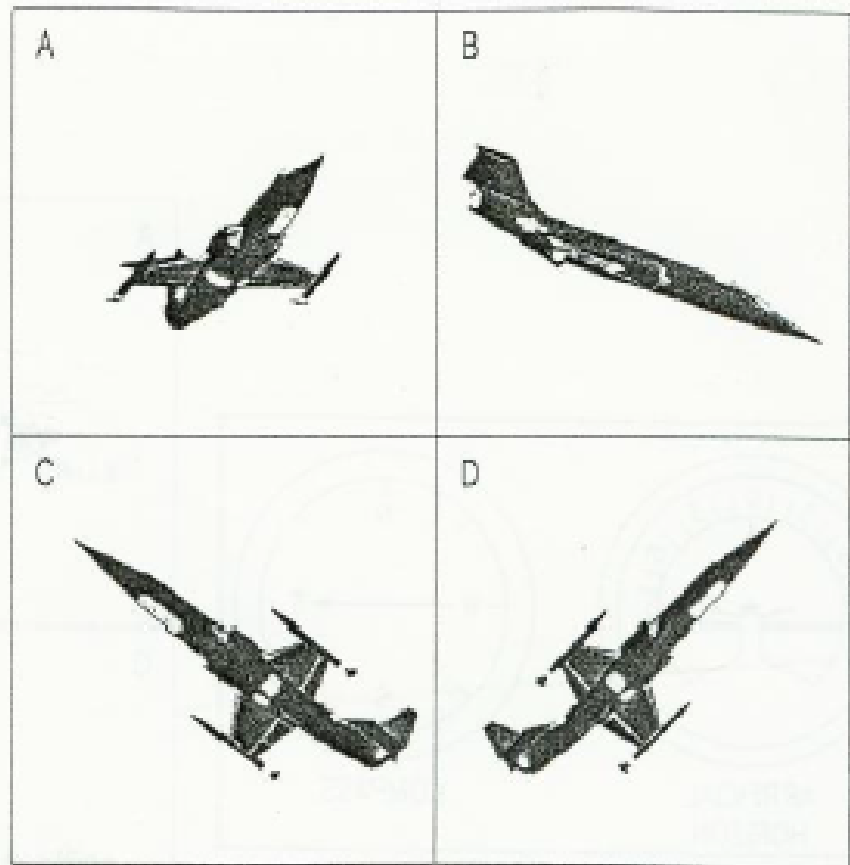
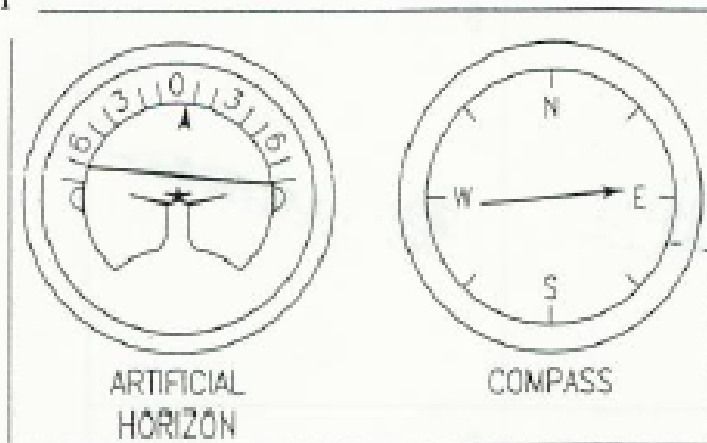
PREPARE TO TEST

1



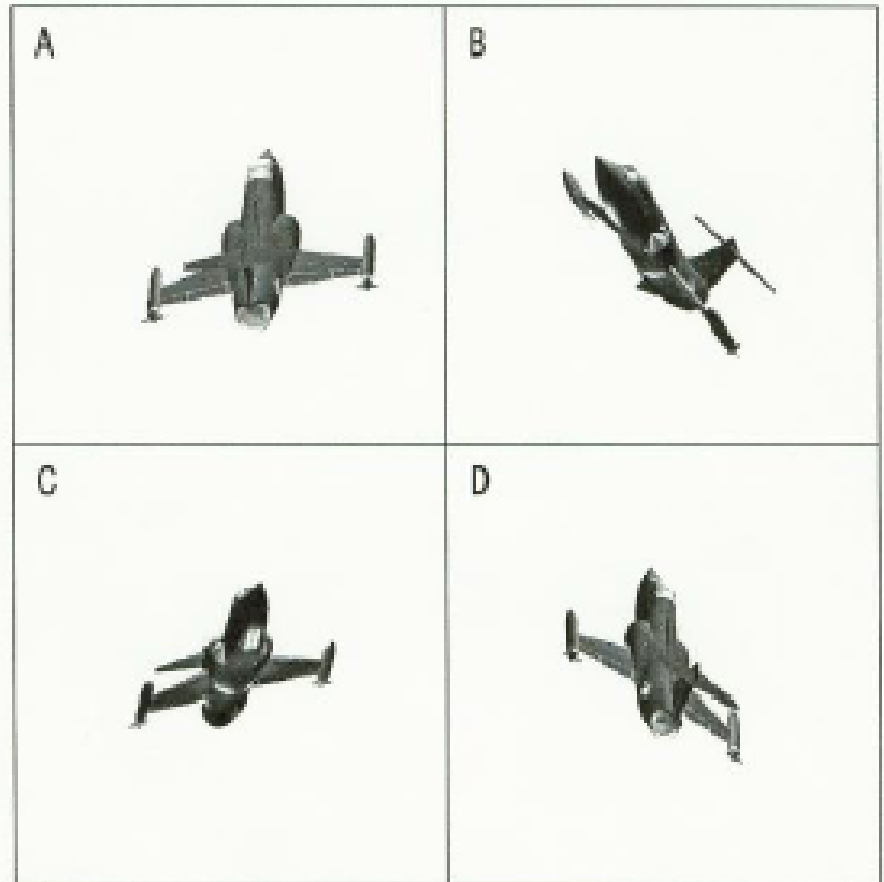
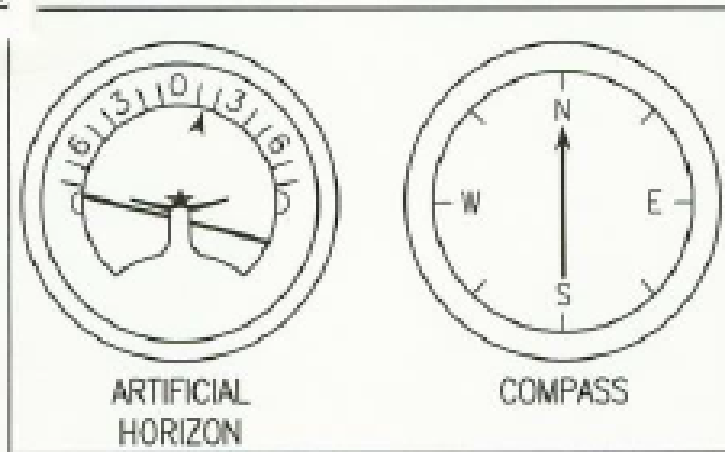
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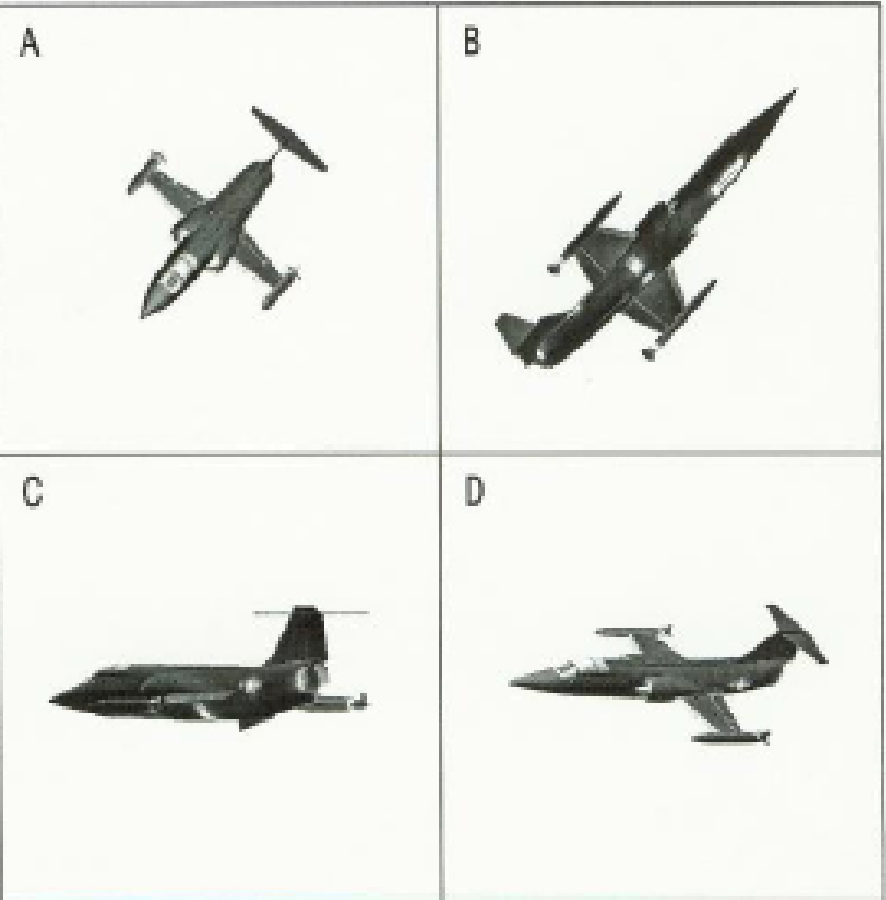
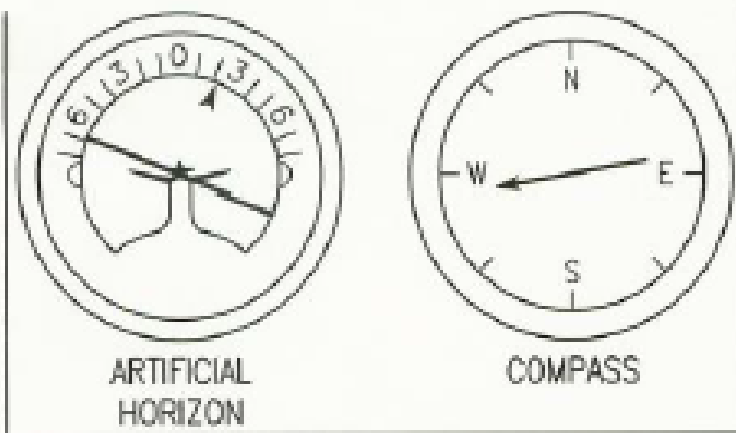
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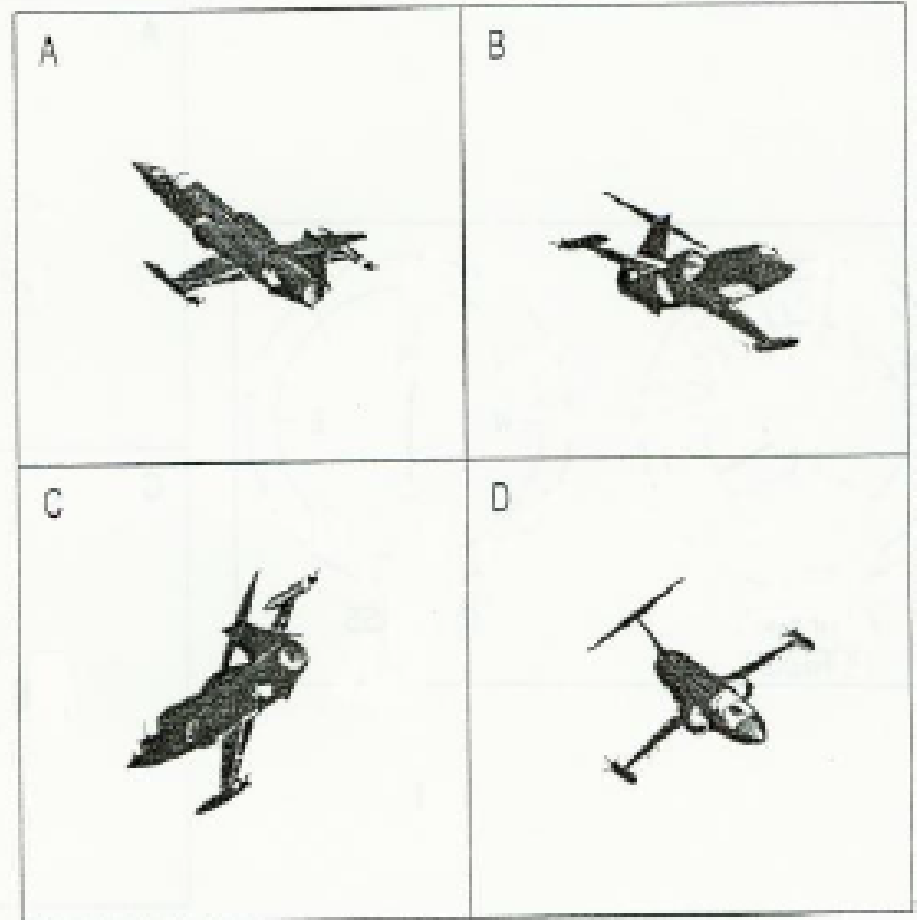
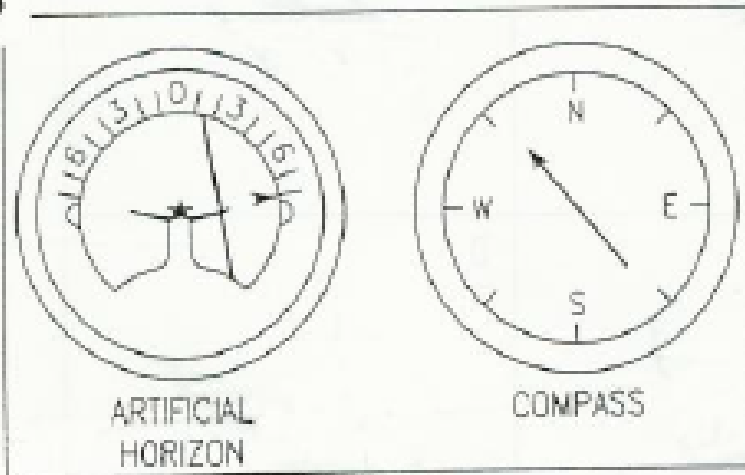
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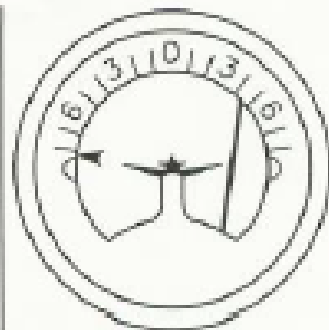
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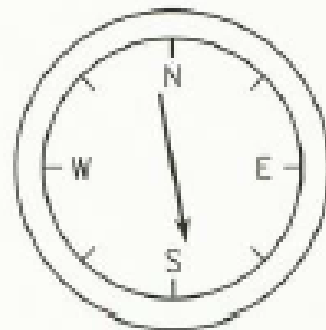


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ARTIFICIAL
HORIZON



COMPASS

A



B



C



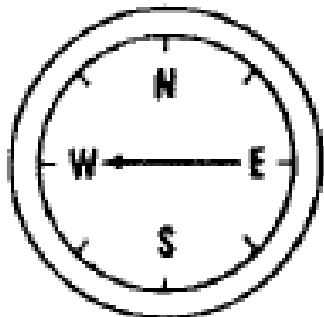
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ARTIFICIAL
HORIZON



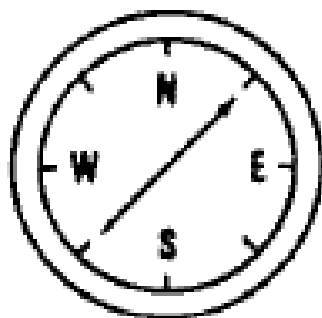
COMPASS



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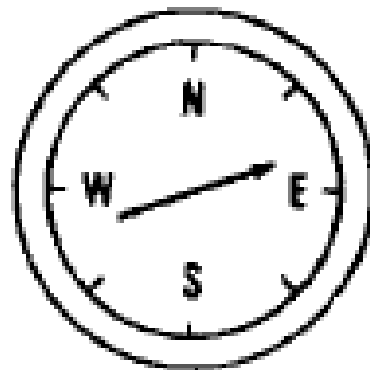


COMPASS





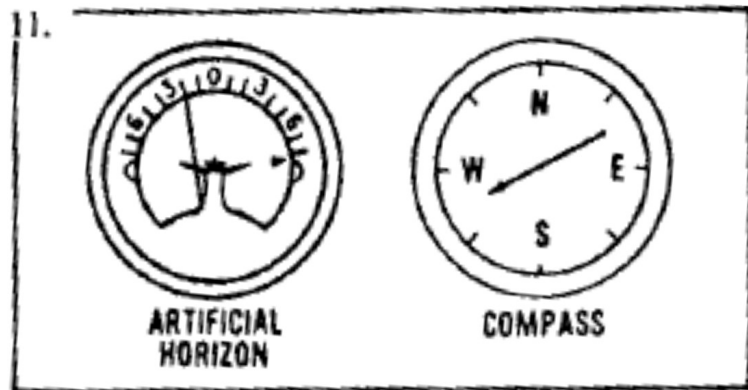
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COMPASS



10



12.



ARTIFICIAL
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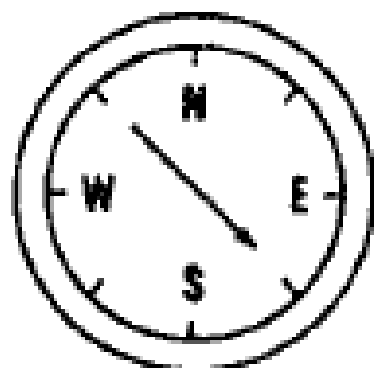
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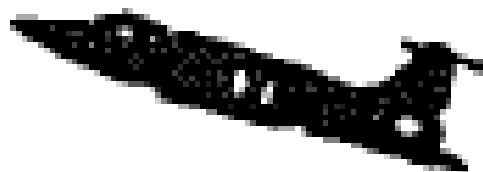
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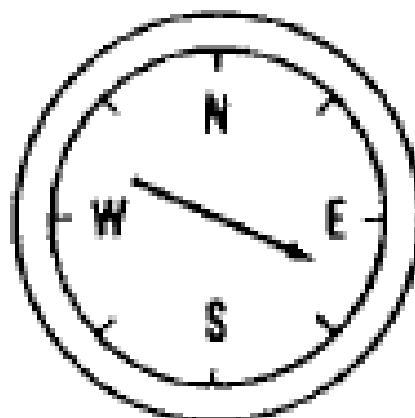
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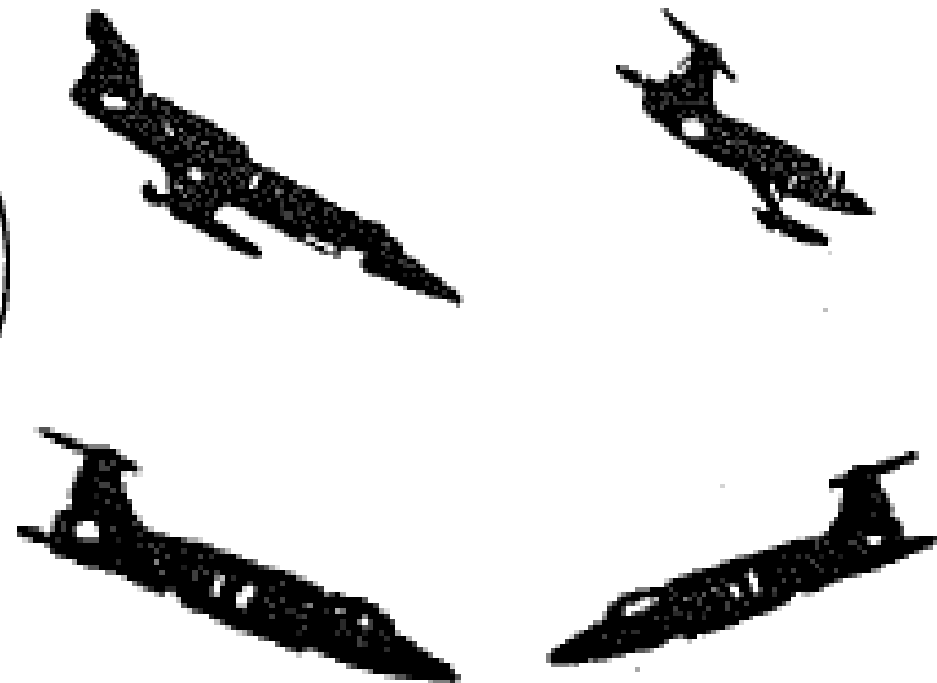
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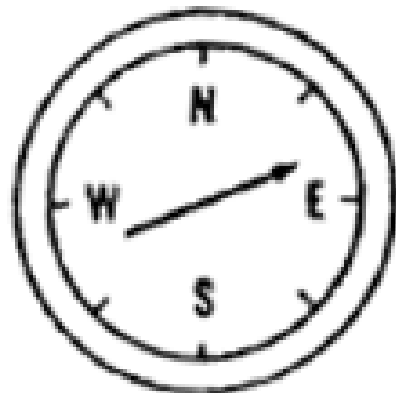


COMPASS





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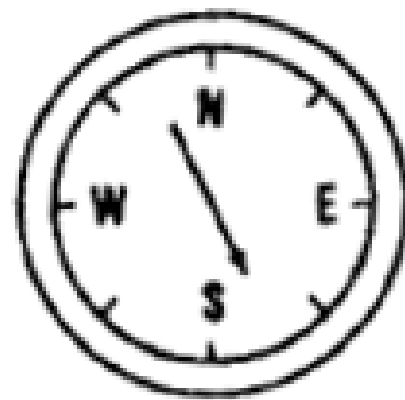
COMPASS



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ARTIFICIAL
HORIZON



COMPASS



ANSWERS

1. C
2. B
3. A
4. D
5. C
6. C
7. C
8. A
9. B
- 10D
- 11D
- 12C
- 13A
- 14B
- 15D

Table Reading Diagnostic

Measures ability to read a table quickly and accurately

40 Questions – 7 Minutes

Begin!!

COMPLETE

Answers

- 1.
- 2.
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- E
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- D
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- A
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- B
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- E
- B
- D
- B
- A
- D
- E
- B
- C
- A

Word Knowledge Diagnostic

25 Questions – 5 Minutes

Prepare to Test

1. ADAMANT:
 - A. Make up
 - B. Throw away
 - C. Go through
 - D. Inflexible
 - E. petty

2. ALTERCATION:
 - A. Defeat
 - B. To make fun of
 - C. Robbery
 - D. Controversy
 - E. Irritation

3. ASSENT:
 - A. Acquire
 - B. Climb
 - C. Agreement
 - D. Emphasize
 - E. Participate

4. ATTRITION:
 - A. Give Up
 - B. Wear Down
 - C. Solve
 - D. Expand
 - E. Purify

5. AUTHENTIC:
- A. Detailed
 - B. Randomly
 - C. Genuine
 - D. Literary
 - E. Practical
6. CONDUCTIVE:
- A. Confusing
 - B. Cooperative
 - C. Precious
 - D. Energetic
 - E. Respectful
7. COUNTERACT:
- A. Criticize
 - B. Erode
 - C. Deceit
 - D. Retreat
 - E. Neutralize
8. DELETERIOUS:
- A. Revoke
 - B. Low
 - C. Mangle
 - D. Frail
 - E. Harmful

9. DILATED:
- A. Cleared
 - B. Deceased
 - C. Graphic
 - D. Contradictive
 - E. Enlarged

10. FLEXIBLE:
- F. Flammable
 - G. Intercede
 - H. Pliable
 - I. Rigid
 - J. Separable

11. FORTNIGHT:
- A. Two days
 - B. One night
 - C. Two weeks
 - D. One month
 - E. 7 hours

12. IMPARTIAL:
- A. Complete
 - B. Not Intelligent
 - C. Fair
 - D. Sincere
 - E. Watchful

13. INCIDENTAL:

- A. Casual
- B. Unexpected
- C. Infrequent
- D. Necessary
- E. Difficult

14. INDOLENT:

- A. Strong
- B. Aware
- C. Patient
- D. Lazy
- E. Rude

15. NOTORIOUS:

- A. Annoying
- B. Condemned
- C. Large
- D. Official
- E. Well known

16. REBUFF:

- A. Forget
- B. Snub
- C. Recover
- D. Polish
- E. Ignore

17. SUCCINCT:

- A. Concise
- B. Bliss
- C. Helpless
- D. Sweet
- E. Loud

18. SULLEN:

- A. Angry
- B. Austere
- C. Happy
- D. Tortured
- E. Sulky

19. SYMPTOM:

- A. Test
- B. Couch
- C. Edifice
- D. Sign
- E. Denture

20. TEDIOUS:

- A. Brief
- B. Disconnected
- C. Simple
- D. Dull
- E. Surprising

21. TERSE:

- A. Faulty
- B. Unite
- C. Recall
- D. Utility
- E. Pointed

22. TRIVIAL:

- A. Distress
- B. Petty
- C. Teamwork
- D. End
- E. Abnormal

23. VERIFY:

- A. Confirm
- B. Vague
- C. Seed
- D. Question
- E. Explain

24. COROLLARY

- A. Conclusion
- B. Watchful
- C. Trespass
- D. Levitate
- E. Bully

25. SUBSEQUENT

- A. Precede
- B. Lead
- C. Encircle
- D. Following
- E. Unbridled

COMPLETE

Answers

1.	D
2.	D
3.	C
4.	B
5.	C
6.	B
7.	E
8.	E
9.	E
10.	C
11.	C
12.	C
13.	B
14.	D
15.	E
16.	B
17.	A
18.	E
19.	D
20.	D
21.	E
22.	B
23.	A
24.	B
25.	D

Math Diagnostic

- Arithmetic Reasoning
- 29 Minutes – 25 Questions
- More time on this section but don't get behind

PREPARE TO TEST

1. There are 72 freshman in the company. If freshman make up $\frac{1}{3}$ of the entire company, the total number of students in the band is:
 - A. 24
 - B. 72
 - C. 144
 - D. 203
 - E. 216
2. Tim receives \$30 for his birthday and \$15 for taking out the trash. If he spends \$16 on a CD, how much money does he have left?
 - A. \$29
 - B. \$27
 - C. \$41
 - D. \$1
 - E. \$0.45

3. A television is on sale for 20% off. If the sale price is \$800, what was the original price?

- A. \$160
- B. \$640
- C. \$960
- D. \$1000
- E. \$1160

4. Jim earns \$9.50 per hour plus 3% tip on all sales made. If his total sales during a 30-hour work week were \$500, how much did he earn?

- A. \$15
- B. \$250
- C. \$275
- D. \$285
- E. \$300

5. The area of one circle is 4 times as large as a smaller circle with a radius of 3 inches.

The radius of the larger circle is

A. 12 in

B. 9 in

C. 8 in

D. 6 in

E. 4 in

6. If 400 people can be seated in 8 subway cars, how many people can be seated in 5 subway cars?

A. 200

B. 250

C. 300

D. 350

E. 400

7. An employee earns \$8.25 per hour. In 30 hours, what earnings are made?

- A. \$240.00
- B. \$247.50
- C. \$250.00
- D. \$255.75
- E. \$257.00

8. A bread recipe calls for $3 \frac{1}{4}$ cups of flour. If you only have $2 \frac{1}{8}$ cups, how much more flour is needed?

- A. $1 \frac{1}{8}$
- B. $1 \frac{1}{4}$
- C. $1 \frac{3}{8}$
- D. $1 \frac{3}{4}$
- E. 2

9. How many servings can be made from 2 dozen eggs if a serving contains 3 eggs?

- A. 1
- B. 3
- C. 6
- D. 8
- E. 11

10. Two runners finished a race in 80 seconds, another runner finished the race in 72 seconds, and the final runner finished the race in 68 seconds. The average of these times (in seconds) is

- A. 73
- B. 74
- C. 75
- D. 76
- E. 77

11. You use a \$50 bill to buy a magazine for \$3.95. What change do you get back?

A. \$46.05

B. \$46.95

C. \$47.05

D. \$47.95

E. \$48.05

12. Next to a post, a boy $3\frac{1}{2}$ feet tall casts a 6-foot shadow. The post casts a 24-foot shadow. How tall is the post?

A. 14 feet

B. 18 feet

C. 28 feet

D. 41 feet

E. 43 feet

13. Devin earns \$8.40 an hour plus an overtime rate equal to $1\frac{1}{2}$ times her regular pay for each hour worked beyond 40 hours. what are her total earnings for a 45-hour work week?

- A. \$336
- B. \$370
- C. \$399
- D. \$567
- E. \$599

14. A shirt first priced at \$40 is on sale for \$30. What percent has the sweater been discounted?

- A. 25%
- B. 33%
- C. 70%
- D. 75%
- E. 80%

15. A box has a length of 3 feet, a height of $2\frac{1}{2}$ feet, and a depth of 2 feet. If the length and depth are doubled, by what percent does the volume of the box change?

- A. 200%
- B. 300%
- C. 400%
- D. 600%
- E. 800%

16. Mr. Bartlett earns a weekly salary of \$300 plus 10% commission on all sales. If he sold \$8,350 last week, what were his total earnings?

- A. \$835
- B. \$865
- C. \$1135
- D. \$1835
- E. \$1925

17. Tiles cost \$2.89 per square foot. What is the cost to tile a kitchen whose dimensions are 4 yards by 5 yards?

- A. \$57.80
- B. \$173.40
- C. \$289.00
- D. \$520.20
- E. \$640.40

18. One-eighth of a store's books are sold on a Friday. If $\frac{1}{4}$ of the remaining books are sold the next day, what fractional part of the magazines remains at the end of the second day?

- A. $\frac{1}{64}$
- B. $\frac{1}{32}$
- C. $\frac{1}{8}$
- D. $\frac{7}{32}$
- E. $\frac{21}{32}$

19. Joanne deposited \$300 into a savings account earning $5\frac{1}{4}\%$ annually. What is her balance after one year?

- A. \$15.75
- B. \$315
- C. \$315.25
- D. \$315.75
- E. \$375.15

20. The length of a rectangle is 3 times its width. If the perimeter of the rectangle is 48, what is its area?

- A. 108
- B. 96
- C. 54
- D. 48
- E. 32

ANSWERS

1. E
2. A
3. D
4. E
5. D
6. B
7. B
8. A
9. D
- 10C
- 11A
- 12A
- 13C
- 14A
- 15B
- 16C
- 17D
- 18E
- 19D
- 20C

Any Questions?